

ABSTRACT:

This abstract will replace the prior version of the abstract in the present application.

A shape detecting apparatus ~~10~~ for controlling the tension of a rolled plate ~~1~~, is composed of a pair of fixing members ~~12~~, a supporting frame ~~14~~ and a plurality of shape detecting units ~~20~~. The shape detecting units ~~20~~ is~~are~~ fixed detachably in a close proximity of the supporting frame in the lateral direction. The shape detecting units ~~20~~ is~~are~~ each composed of cylindrical divided rolls ~~22~~ in contact with the rolled plate, a ~~fixing~~ fixed member ~~24~~ fixed on the supporting frame, an arm member ~~26~~ of which one end supports the divided roll rotatably, and of which the other end is fixed on the ~~fixing~~ fixed member, and a load detector ~~28~~ for detecting a moment of rotation acting on the arm member.